

Claims

What is claimed:

[c1]

1. A method to eliminate redundant sequences which are common between two or more samples using bimolecular degrading enzymatic reagents and radiolabeled assay to identify the remaining sequences which are uniquely expressed or over and under expressed in these samples, comprising of the steps:

- a). isolating RNAs or DNAs from samples which are of interest,
- b). generating cDNA from RNAs using RT-PCR methods and technologies,
- c). cross mixing complementary cDNAs with RNAs of samples of interest,
- d). degrading the hybridized complements using degrading reagents,
- e). amplifying resultant cDNAs or RNAs by PCR amplification,
- f). displaying and reading resultant cDNAs or RNAs, and
- h). sequencing unique cDNAs or RNAs.

[c2]

2. The method of claim 1, wherein said samples of interest recited in (a) are cells, tissues, pathogens, plants, and animals which RNAs and DNAs are isolated using standard prior-art methods and technologies.

[c3]

3. The samples of claim 2, are comprised of cells, tissues, pathogens, plants, and animals with little or totally known genetic sequence information.

[c4]

4. The samples of claim 2 are comprised of cells, tissues, pathogens, plants, and animals, which have differentiated due to a diseased state, developmental, change, or induced by an external or internal stimulus.

[c5]

5. The method of claim 1, wherein said RT-PCR methods and technologies is comprised of radioactive labeled to anchored oligo dT primers to generating cDNAs or RNAs.

[c6]

6. The method of claim 1, wherein said cross mixing complementary samples comprise of mixing cDNAs and RNAs from samples recited in Claims 3 and 4 forming hybridized cDNA/RNA.

[c7]

7. The method of claim 1, wherein said degrading reagents recited in d) are Exonuclease III or VII enzyme.

[c8]

8. The method of claim 1, wherein said amplifying by PCR recited in e) comprises of using AmpliTaq Gold Polymerase.

[c9]

[c19]

[c20]

[c21]

[c22]

[c23]

[c24]

[c25]

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A'

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